

Manufacturer-Related Product Qualification

for the manufacture of products for railway rolling stock

Manufacturer

Sachsen Guss GmbH
Obere Hauptstraße 228-230
09228 Chemnitz

Scope of qualification

Product/product group	process	materials group
Product group 7: housings (f.e. traction motor or gear box housings)	Casting and heat treatment	WG G4 - GLS EN 1563 WG G5 - GJL EN 1561
Products of product group 11 see overleaf		

Manufacturer's mark used



Basis of qualification

- Evaluation of manufacturing plant and the production processes: 15.12. -16.12.2014
- Test reports: Nr. 0020/15, CEWUS GmbH, D-09119 Chemnitz, 19.01.2015
- Final report no.: 070/00698/18

Restrictions

This qualification is only valid, if the conditions specified in our letter GS.EF42.HPQ from 31.05.2018 are being met.

Qualification valid until: **Februar 2021**

Deutsche Bahn AG
 Beschaffung Schienenfahrzeuge und
 Schienenfahrzeugteile (GS.EF)
 Qualitätssicherung Service (GS.EF 42)

Berlin, 31 May 2018



Bismark



Moros

Nr. LgP	component	remark
product group 1 – windscreens		
340	End wall window, windscreen (inc. heating system)	
product group 2 – wheelset components		
450	Wheelset (complete)	
452	Monobloc wheel	
454	Wheel body	
455	Wheel tyre	
461	Axle with/without a central bore	
462	Axle with central bore / boring/drilling	
463	Molybdenum-coated wheelset / molybdenum coating	
product group 3 – axle box bearings		
468	Roller bearing for axlebox	
product group 4 – axle box housings		
466	Axle box housing, axle bearing housing	
product group 5 – springs		
390/419	Coil springs	
395/423	Laminated suspension spring (complete)/spring leaf (individual)	
product group 6 – brake discs and hubs		
949	Hub, raw part, unmachined	
950	Brake discs, friction rings, segments, raw parts, unmachined	
product group 7 – housings		
268	Coupler head/coupling head/coupling head housing/catcher	
800	Gearbox housing	
820	Traction motor housing	
843	Hollow drive shaft, hollow axle	
846	Hollow shaft casing	
850	Gearbox housing	
947	Brake shaft, Hollow brake shaft	
product group 8 – draw hooks		
300	Coupling hook	
product group 10 – draw bars		
308	Drawbar, forked drawbar	
product group 11 – general components		
171	Bracket/bearer/suspension system (power transmission between the running gear/truck and the vehicle body)	Vehicle body shell/body shell/vehicle body/structure, Welded-on parts, vehicle body fittings and structures
285	Central articulated joint, car body articulated joint	Buffing and draw gear, coupler
293	Components such as sleeves, plungers and buffer heads	Side/self-contained buffers, complete, crash buffers
295	Impact protection element (steel, reversible, e.g. annular springs, friction springs)	Buffing gear, impact protection elements
372	Solebar, truck side member	Chassis/running gear/truck (complete), Load-bearing structures
373	Crossbeam	
376	Suspension rod	
377	Truck bolster/beam	
378	Spring bracket, hollow shaft	
397	Spring suspension, spring bearing, spring guide	
400	Spring hanger	
401	Spring bolt	
414	Wheelset bracket	
426	Beam, pneumatic spring bracket	
444	Yaw damper bracket, rotation damper bracket	Pneumatic spring system (complete)
447	Torsion shaft, torsion bar	Rotation stabilization system, yaw stabilization system
467	Casing sleeves	Suspension, damping, wheel(set) mounting, Friction torque inhibitor elements
469	Roller bearing components: inner raceway, outer raceway	Axle box complete (axle roller bearing, wheelset roller bearing)
484	Push-pull bar, link rod	Running gear-vehicle body connection, Articulation, tensile force articulation, lengthwise articulation
485	Coupling element/coupling rod	
486	Tensile force articulation system housing	
488	Truck stop block	
492	Truck pivot, central casting pins	Truck pivot, central casting, slewing rim
497	Central casting upper/lower	
498	Slewing rim	
501	Torsion bar (including level), torsion shaft	Anti-roll system
502	Drawbar for torsion bar	
503	Roll bar bearing	
509	Pendulum for torque support	Drehmomentsstütze
531	Brake suspension system (e.g. from brake beam inter alia)	
532	Damper mounting brackets	HPQ for components with a supporting/counter-bearing role, Brackets, suspension systems (Running gear - fittings/auxiliary function)
544	Tilting crossbeam including suspension	Tilt system
545	Suspension rod, tilting pendulum	
546	Ball-and-socket joint, articulated joint	
547	Truck bolster	
548	Pendulum carrier, pendulum connection	Main generator system (traction generator)
707	Supporting frame, supporting structure for generator, stator casing	
821	Bearing shield: driven and non-driven end	
836	Traction motor and drive suspension system pendulum	Drive, traction motor, gearbox
872	Connecting rod, coupling rod	Traction motor suspension/drive suspension system (complete)
874	Torque dampers	Rod drive, chain drive
954	Brake guide	Brake actuating elements- Brake caliper unit
955	Brake caliper/brake caliper lever	
956	Bracket	
957	Housing	
958	Main suspension/mounting (pins, suspension bracket inter alia)	Brake caliper unit
961	Main suspension/mounting (pins, suspension lug, etc.)	
962	Lever	
963	Housing	Eddy-current magnet (complete)
967	Brake drum	
978-2	Brake tie bar, brake flange, brake beam	
998	Integral beam	
999	Tragarm	Eddy-current magnet - Suspension/lowering system (complete)
1000	Track holder complete, retaining bracket	
1001	Brake support, braking force support, complete	Electromagnetic rail brake (complete)
1005	Clamp, bracket	
1008	Support frame	
1009	Trackholder (complete)	
1010	Trackholder head	
1012	Pull bow, thrust bow	
1013	Driver, driver stem, driver stop	
1014	Suspension stand	
product group 12 – general components with special testing		
402	Spring shackle	
978-1	brake triangles	
969	Brake blocks	
304	Coupling pins, looped coupling links, coupling links, coupling nuts, coupling screws	Screw coupling
311	Coupling bolt	Drawbar, forked drawbar